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☐ 1. 2/34/1 (Item 1 from file: 351)

007333285

WPI ACC No: 1987-330292/ 198747

Catalyst for epoxidation of olefin(s) - comprises quat.
ammonium salt or peroxide

Patent Assignee: SAN PETROCHEMICAL K (SANP-N)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 62234550	A	19871014	JP 86228768	A	19860927	198747 B

Priority Applications (No Type Date): JP 85296226 A 19851224; JP 86228768 A 19860927

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 62234550	A		8		

Abstract (Basic): JP 62234550 A

Catalyst is salt or peroxide consisting of quat. ammonium ion derived from quat. ammonium cpd. or quat. ammonium cpd. with N-contg. ring and heteropolyacid ion of V gp. element of periodic table and w. Quat. cpd. has general formula of R₄N(+)X(-) (at least one R is alkyl gp. of 8-18C and other R_s are alkyl gps. or benzyl gps. of 1-18C. X = anionic counter ion).

Pref. N-contg. rings are pyridine ring, picoline ring, quinoline ring, imidazole ring and morpholine ring. Heteropolyacids are phosphotungstic acid and arsenotungstic acid, etc. Solvents used are non-hydrophilic solvents, e.g. halogenated hydrocarbons.

USE - The catalyst obtd. is used to react olefin and H₂O₂ in a solvent at 0-120 deg.C. Cpd. obtd. by epoxidation are used as raw materials of epoxy resins and as intermediate prods. of reagents, medicines and agricultural chemicals, etc.

0/0

Derwent Class: A41; B03; C02; E13

International Patent Class (Additional): B01J-031/02; C07D-301/12

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☐ 2.

2/34/2 (Item 2 from file: 347)

02317650 CATALYST AND ITS USAGE

Pub. No.: 62-234550 A]

Published: October 14, 1987 (19871014)

Inventor: ISHII YASUTAKA

Applicant: SAN PETORO CHEM KK [000000] (A Japanese Company or Corporation), JP (Japan)

Application No.: 61-228768 [JP 86228768]

Filed: September 27, 1986 (19860927)

International Class: [4] B01J-031/02; C07D-301/12

JAPIO Class: 13.9 (INORGANIC CHEMISTRY -- Other); 14.1 (ORGANIC CHEMISTRY -- Organic Compounds)

Journal: Section: C, Section No. 485, Vol. 12, No. 103, Pg. 158, April 05, 1988 (19880405)

ABSTRACT

PURPOSE: To obtain the title catalyst for producing epoxides from olefins and hydrogen peroxide with high conversion efficiency and selectivity by using a specified quaternary ammonium ion and the salts of group V elements of the periodic table and tungsten with heteropolyacid ions or their peroxides.

CONSTITUTION: A quaternary ammonium compound shown by the formula $R_4N^+X^-$ (in the formula, at least one of the Rs are a 8-18C alkyl group. other Rs are a 1-18C alkyl or benzyl group, and X^- is an anionic counter ion) or a nitrogen ring-containing quaternary ammonium and the heteropolyacids such as phosphotungstic acid are respectively dissolved in a solvent such as water, both solutions are then mixed, and the deposited salt is isolated to obtain a catalyst. The catalyst is further treated with hydrogen peroxide before the catalyst is tested for the reaction, and the catalytic activity can be enhanced. High conversion efficiency of olefins and high selectivity can be obtained with use of the catalyst while using easy-to-handle comparatively low-concentration hydrogen peroxide.

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☐ 3.

2/34/3 (Item 3 from file: 345)

6123054

Basic Patent (No,Kind,Date): JP 62234550 A2 871014

PATENT FAMILY:

JAPAN (JP)

Patent (No,Kind,Date): JP 62234550 A2 871014
CATALYST AND ITS USAGE (English)
Patent Assignee: SAN PETORO CHEM KK
Author (Inventor): ISHII YASUTAKA
Priority (No,Kind,Date): JP 85296226 A1 851224
Applic (No,Kind,Date): JP 86228768 A 860927
IPC: * B01J-031/02; C07D-301/12
CA Abstract No: ; 109(10)075696J
Derwent WPI Acc No: ; C 87-330292
JAPIO Reference No: ; 120103C000158
Language of Document: Japanese

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